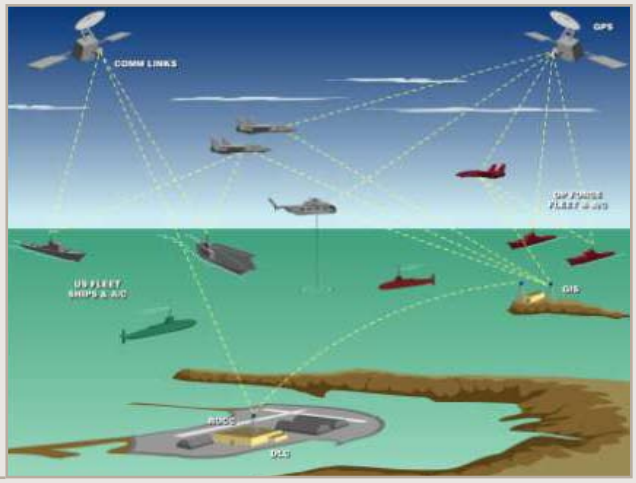
ATR
Atlantic Test Ranges

Tactical Combat Training System

The Tactical Combat Training System (TCTS) is an ACAT IV acquisition program designed to replace current Navy airborne instrumentation, over-the-horizon (OTH), Time Space Position Information (TSPI) systems for tracking surface and air participants in support of tactical training exercises at shore-based sea combat training ranges.

Using Global Positioning System (GPS) satellite tracking, TCTS provides continuous real-time tracking of air and surface exercise participants up to 240 nautical miles from the Range Operations Control Center (ROCC) transmitting site at the Atlantic Test Ranges. TCTS tracking information is collected at the ROCC, where it is combined with data available from other range systems (surveillance radar tracks, subsurface tracks, etc.) to form a total picture of the events occurring in the operational areas associated with the ROCC.

During an exercise, TCTS provides real-time exercise data to the command ship. After an exercise, TCTS can transmit selected exercise data to ships and remote land-based sites. Aboard ship, the data can be replayed for shipboard training. At land-based sites, the data can be used for reconstruction and debrief purposes. TCTS supports training requirements that range from single-platform unit-level operations to complex, multi-platform scenarios typical of Fleet Readiness Exercises. TCTS also supports multiple independent operations.



Operational diagram

GPS-based tracking system

- GPS-aided inertial measurement provides full-state vector
- 72+ player capacity
- 240 nautical mile tracking range with line of sight plus 3 relays
- Includes aircraft interfacing and weapons real-time data collection
- Continuous operation
- Multiple simultaneous exercises and missions

Participant Packages for fixed-wing, rotary-wing and ship platforms

for more information

(301) 342-1197 / 1170 / 3682 / 8640 / 3607 / 1181
23013 Cedar Point Road
Patuxent River, MD 20670
PAXR_ATRCONTACT@navy.mil

www.navair.navy.mil/ranges

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